

SEQUENCE LISTING

<110> Pyle, Ruth A.
Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIAGNOSIS OF PANCREATIC CANCER

<130> 210121.543

<140> US
<141> 2001-07-30

<160> 32

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<211> 888
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 663, 668, 743, 748, 749, 784, 786, 803, 820, 823, 832, 862,
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ctgaggcgtt cttctgctat cgttctgtca agttttccgt gataccacct aagggaaaaaa 540
cagagaagat attacaatat aaatagcaag tgcagaattt ctatggacac ttgaaaaaca 600
tactactaga gggtttaaat gcctacatgt aacttaaaca tttacatttt actctgaacc 660
agntattnca attttaactc aatttacctc agtctcaaaa aaaactcatt tacttgggct 720
ttaatttggt ctaaaagctc agncttannc atctcatata taaaactctt cctttttacc 780
catntnctac ttcaggatgg cgnttcaaa ataacctcgn acncaactct tnaaataaag 840
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<210> 2
<211> 1118
<212> DNA
<213> Homo sapiens

<220>

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<221> misc_feature
<222> 44, 76, 81, 139, 141, 369, 374, 422, 425, 482, 551, 557,
562, 604, 612, 623, 673, 685, 699, 700, 707, 709, 720, 726,
727, 745, 762, 766, 767, 784, 793, 803, 814, 819, 832, 834,
847, 851, 865, 867, 868, 884, 889, 899, 901, 902, 903
<223> n = A,T,C or G

<221> misc_feature
<222> 904, 905, 909, 911, 912, 921, 950, 973, 986, 992, 993, 997,
1007, 1008, 1011, 1012, 1014, 1017, 1018, 1023, 1024, 1031,
1032, 1033, 1035, 1054, 1055, 1062, 1063, 1065, 1080, 1083
<223> n = A,T,C or G

<400> 2
gttttttttt tttttttttt tttcatcgga aaatagttta attntgtaca gacaaccacg 60
ggactgatta caaagngcgg ngcaaacacc agggcccatg agcggccagca gcgtggccca 120
ccacgtgccg gggctccana naccacgccc gaaacaccaa ataaatcaca gacgtgacaa 180
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ggtcccacna cggntcccaa cctgtggagc tgggtgcgcg gccaccacca ctgcggccctc 420
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anatcatctt ggcgtgctgc tcgtacgggt gccccgcacc ttgtcggggt gcacggccag 540
caccggccgg ngatagngct tnttccttgc tccggaccac aggtcggcca ttcccacggg 600
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aaanttttg ggnaaaaggg ggnctttttt gggncccc tttttttt tnanaaaacc 840
ttggganggg naaaaaaccctttnnntt ggggaacaaa ccanaaaant ttttaaaang 900
nnnnnnttntt nnaaaaaaaaaa nttttggggt ttttgaac aaaaaaaattn gggggggggg 960
ggaaacccc cncntttttt ttgggncccg gnnaaantt aaattnnngg nnanttnngc 1020
ttnnttttc nnncntttt ggggggtttt ttnnngggg gnnanaaaac ccctcctttn 1080
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<210> 3
<211> 974
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 553, 592, 630, 656, 684, 686, 739, 770, 794, 807, 814, 821,
841, 849, 861, 876, 892, 924, 956, 963
<223> n = A,T,C or G

<400> 3
gcgaggcttc agtgagccag gatggaaacg cgtgtcccaa gtgtctggac accgcccggc 60
ccactgcgac ctagcgccgc cgccggccgg gcccaatgcc ggtcatgccc attccgcggc 120
gggtgcgctc cttccacggc ccgcacacca cctgcctgca tgcggcctgc gggcccgtgc 180
gcgcctccca cctggcccgcc accaagtaca acaacttcga cgtgtacatc aagacgcgt 240
ggctgtacgg ctcatccgc ttctactct acttttagctg cagcctgttc actgcggccg 300
tctgggtgc gctggccgc ctcttctgccc tacagtacct gggcggttcgc gtcctgctgc 360
gcttccagcg caagctgtcg gtgctgctgc tgctgctggg ccgcggccgc gtggacttcc 420
gcctggtaa cgagctgctc gtctatggca tccacgtcac cagcagcatc taaaagccc 480

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caggtatatg ctgagatctt atctcacgct gtcctccagt gtctggggg cccaaatgat 540
 ggcacagggg cangtggct ggaagggcgc aaaatgcctg tggtaaggg anggtggcca 600
 ccatggggcc cgagggtctt acccaagaan cccttggctt ttgggtcctt aaaccnttgc 660
 aagtcaaccg gggaaagcaac ttantngggg gggacctggg cccaaattggg cccgtggtgg 720
 aactttttg gggggggcna aaattggggg aaaggggccc ccccttggn aaataaaatg 780
 gaaaatgggc caangggAAC aaaccanggg caanaaaaggg nttacccctt taaaaaacc 840
 ngggAACNC cagggggggg ngggggacct tggacnaacc ccctaattggg gnaccctcc 900
 aaaatccatg gttccccccc cctnttgggg attggggggg gaattttga ccctancctt 960
 ttnggggaa caaa 974

<210> 4
 <211> 865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 549, 567, 606, 668, 671, 687, 703, 732, 763, 777, 790, 799,
 807, 847, 861
 <223> n = A,T,C or G

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 gcctccgccc accatggagt acctcatcggtatccaaggc cccgactatg ttcttgc 120
 ctccgaccgg gtggccgcca gcaatattgt ccagatgaag gacgatcatg acaagatgtt 180
 taagatgagt gaaaagatatactcctgtg tggatggagag gctggagaca ctgtacagt 240
 tgcagaatataattcagaaaa acgtgcaact ttataagatg cggaaatggat atgaattgtc 300
 tcccacggca gcagctaact tcacacgccc aaacctgctg actgtctcg gagtcggacc 360
 ccatatcatg tgaacccctt cctggctggc tatgtgagc atgaaggccc agcgctgtat 420
 tacatggact acctgcagcc ttggccaagg cccctttgc agcccacggc tatgggcct 480
 tcctgactct cagttatccctt gaccgataact acacacccga ctatctcagc tgagaaggca 540
 gtggaaactnc ttaggaaatgtctggangaa ctccagaaaac gcttcatcctt gaatcttgc 600
 accttnagtg ttcaatcat tgacaaaaat ggcattcatg acctggataa catttcctt 660
 ccaaacanggg nttctaaat tattgtncctt cttccctt tgncaaggaa cttttttttt 720
 gaaggggctc cttttttttt tttctactct tttcaaggcg ccncttttataaaanggg 780
 ttaatttcan aaaaaaaaaaaaaangggactnttg ggatattaaat ttgaaaaaaaaaaaaaaa 840
 aaagggnggg ccgcttttaa ntttt 865

<210> 5
 <211> 731
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 513, 520, 537, 561, 620, 627, 663, 715, 717
 <223> n = A,T,C or G

<400> 5
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 acacaacaag gacggacatc tattgttcat ctgtttgaat ggcgtatgggt tgatattgt 120
 cttgaatgtg agcgatattt agctccgaag ggatggag gggttcaggt ctctccacca 180
 aatgaaaaatgttcaatttcaacccttcaagccttgggt gggaaagata ccaaccagg 240
 agctataaaat tatgcacaag atctgaaat gaagatgaat ttgaaaaacat ggtgactaga 300

tgtaacaatg ttggggttcg tatttatgtg gatgctgtaa ttaatcatat gtgtggtaac 360
 gctgtgagtg caggaacaag cagtacctgt ggaagttact tcaaccctgg aagtagggac 420
 tttccacgag tccccatattc tggatggat ttcaatgtatg gtaaaatgtaa aactggaagt 480
 ggagatatcg agaactacaa tcatgtact cangtcagan aatgtcgctc gactggnc 540
 cttgatcttgc aactggagaa ngtatcacgt cctgtctaa gatgccata tatgaaccat 600
 ctcatgtcat tgggtgtcgtt ggtcanctt gatgtttca acccatgtgg gctggacat 660
 aangcaattt ggacaactgc ataatctaac aatactgggtt cctgcaggaa gtaancnttc 720
 tttccagaa g 731

<210> 6
 <211> 848
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 522, 537, 547, 596, 622, 682, 704, 708, 747, 755, 775, 828,
 848
 <223> n = A,T,C or G

<400> 6
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 gtcctccat tatctgtgag gactgaattt caccggcgtt tttcaacgca ggctctttgc 120
 tcggggaaag tcaaaccatc tctcaaaggta tcaaagagct cagccataga cagagccgccc 180
 ggagggaaagc ggagtcgctg catcaagatgaa aaggggccccc tcagcctcac tcctcaccgc 240
 agctcctggg atcttaaaga cagggtcagg aggatcaga gggacaagag ggatggaggc 300
 gaaaggctgg atccttaatc caggccggag acaaagccgc gccaggggc tcgcggcgcg 360
 cggccctgt cctccggccc gagatgaatc ctgcggcaga agccgagttc aacatcctcc 420
 tgccaccgac tcctacaagg ttactcacta taaaacaatccaccaaca caagcaagt 480
 ttatttctac tttgaatgcc gtggaaagaa gacagaaaaac tncaaattaa ggaaggngaa 540
 atatgangaa acagtatttt atgggttgca gtacattttt aataagtact taaaanggaa 600
 agtagtaacc aaagagaaaaa tncaggaagc ccaagatgtc tacaagaac attttccaag 660
 atgatgtctt ttaatggaaa anggatggaa ctacattttt tganacanta ttgaatgggg 720
 gatttttcc aatacaaaaaa aaaaaanctt gtttncttga agggggttt ggtantttt 780
 ccaaaaaggg aaaaagggttt tttttttcc cccggggggg gaaaaaancc ccccccccccc 840
 cccccgan 848

<210> 7
 <211> 737
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 669, 685, 718, 722
 <223> n = A,T,C or G

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 tctggctccc aggtaccaga tggatcatcc agatgaccca gtctccatcc tccctgtctg 120
 catctgtagg agacagagtc accatcatcgtt gcccggcggag tcagggcattt agcaattttt 180
 tagcctggta tcagcagaaaa ccagggagtg cccctaaagct cctactccat gctgtatcca 240
 acttggaaag tggggtccca tccaggttca gtggcagtgg atctgggacg gattacactc 300
 tcaccatcatc cagcctgcag cctgaagatt ttactgtcaa cagtattata 360

gtaaccctcc ggtcactttc ggcggaggga ccaaggtgga gatcaaacga actgtggctg 420
 caccatctgt cttcatcttc cgcgcattctg atgagcaggaa gaaatctgga actgcctctg 480
 ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg aaggtggata 540
 acgcctccca atcgggtaac tcccaggaga gtgtcacaga gcagcacagc aaggacagca 600
 cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa caccaagtct 660
 acgcctgcna aagtacccccc atcanggcct ggagcttcgc cccgtcaca aaaaagcnn 720
 tnaacaaggg gaaaaat 737

<210> 8
 <211> 762
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 668, 680, 689, 700, 705, 755, 761
 <223> n = A,T,C or G

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 accgcgcgtgg aggaaggcgc tgccgcggcaa ggagaacaag gggctctgtgg aaatcatgag 180
 aaaggacttg aatgacgcacc gggacactgca tggccagggca gactcagcag ctgcagtgtg 240
 gaaggagacac gtgatggacc gtaggaagaa ggcactgacc gactacaaga agctgcgggc 300
 cttcttgtg gaggaggagg agcatttcct gcaggaggt gagaaggagg aggggctccc 360
 tgaggacgag ctggctgacc ccactgagcg gttcaggtca ctgcgtcagg cggctctcgaa 420
 gctggagaag aagcatcgca acctggccct cagcatgctg ctgcagtgtat ggcgcacaacc 480
 cgtggcagtc ccagagctgg aggcaggagg atggatccctc atctccatgg gaagtgtcag 540
 cgtgtggctg cagggaaagcg tggcaggcgc ctgccttggg tccatctaca tagttgcgtg 600
 tttcaacaat gtccatttat cttcacccct gaggcgtgtt ttggggctg caaacaccc 660
 cggtagangc tggacctgan gacccttnc caccttgcgtt ccctncctt cttgaagtcc 720
 taaccacaag cccattttc catatagtcc cccgnagctt nt 762

<210> 9
 <211> 846
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 782, 793, 805
 <223> n = A,T,C or G

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 ggctccccgg acgcctcgcc ggcccgctgg ggctggaggc acggcccat caacgtgaac 120
 cattacgcca gcaagaagag cgcagccgag agcatgctgg acatcgccgt gctgatggcc 180
 aacgcgtccc agctgaaggc cgctgtggaa cagggcccca gttcgcctt ctatgtgccc 240
 ctgggtgtcc tcatctccat ctcccttgcgt ctgcagatcg gcgtgggggt gctgctcatc 300
 ttccttgtca agtacgaccc taacaaccccg gccaagcaccg ccaagctggaa ctccctcaac 360
 aacctggcca cgggcctgggt gttcatcatc gtggtagtca acatcttcat cacggccttc 420
 ggggtccaga agcccttcat ggcacatggca ccccaagcagt aaggacaccc aggaccctgg 480
 atgctgcctg ccctgcaact cagctggccg accccaggag tcgcataacc tgtgaggtgt 540
 ccaccccttgcacatggca ctacccagac tgccagagcc caggctggcc tcatctgcac 600

catgtccccg gaccagccct tgctctgact gcggccaagc accacgcagg aggccactct 660
tgtctctcag cagctgttcc caggaagcag cttccttctg gcacatgggg gctgggcaca 720
atagccaaa agggtaaaaa actgggacaa gcttgcaaaa aactctgtgs cccaaaaaaaaa 780
anggggtctt tgnaccccaa ctttnaaggg racccccccca agccagggtc ccccccggga 840
aatggg 846

<210> 10
<211> 966
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
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793, 811, 815, 830, 838, 844, 853, 854, 855, 862, 869, 870,
871, 872, 873, 883, 897, 907, 914, 946, 949
<223> n = A,T,C or G
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<400> 10
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ccgtcgccctg ctgacgttta ggtctccag acctgggtggc cgaccctac tacatccagg 180
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gatttccccca aagagtaaa aaccaaggga catcagattt cttaccacgg cgaccaagat 360
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atgacctgct ttagccaaac acccagagga gagttggctga aggccacaaa gcaagttct 480
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cacagggatt gagtcctgtc gttatgatac ctatggtgca gacataagact gccagtgat 600
tgatattaca gatgtaaaac ctggaaacta tattctaaan gtcaagtgtt aaccccaacta 660
cctggttcct gaatctgact ataccaacca atgggtgtngc gcttnggaca ttgcgtacca 720
caaggaaaat catgccgtat gcctcangct ggaccaattt caccctgttt anaaagggnna 780
aaaccaaaaac ttncccaatg ggaataaaat naaanggcct tggggggttt tttaaaangg 840
gggnaaaaaa aannnnacctt anccttccnn nnnngggaaat ttntttttt tttttgnaaa 900
aaagaanaaac cccnaaaaac ccccccggaaag gaaaattttt ttttnggna cccggttttt 960
aaatta

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<210> 11
<211> 852
<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<222> 646, 710, 712, 728, 736, 754, 776, 799, 844, 847
<223> n = A,T,C or G
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ttttaaagtat atatggcatt gcctaaaaat aatatggaaa gctttggca ctatctttat 120
ctctttgcca aatgccccatg tctaattcgag gtttggggaa ataaaaacctt gataaaactga 180
gaaccctgtaa atgtctttca gggcagaaac tgatTTTtac aggctccatg tcccaggcac 240
ccagcagggtg ccagagaaaat ggtcagctac atgagagttt ccagtttcca ataattcaat 300
acatctaattg gaaggacttag ctggagagac agatgcttgc aaacctggca gtggaaagcca 360
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tggccctgta cctctgtgcc ttgggtgcttt tagaaggcag cgctgtcaga gttcaatgg 420
 ataaaacttca gtaccttgc aactctactt catgtcagg ttcaaaaaca tactcaacta 480
 aatctcacat gtctacactt attttcagec taccttccca cattgtgtag tttatcaaaa 540
 ttagagaaga gtgaaggagc ttaacattcc aacataattt tttaataacc gtggcaaaaa 600
 cacatagcat aaaatttacc cttaatcatt tctaaacata tagagntcag taagtttaag 660
 tatattccat tgggtggacaa ccagtatcca aaactttca tcttgc当地 gngaaactgg 720
 atttgttnaa caactnttct ttcccagc catncagcac cacttcttt gggagnttt 780
 tccccctaaa atctcatgna agagaactat agattggccc attggaccgg ttatttacaa 840
 acanaangtc tc 852

<210> 12
 <211> 1090
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 505, 528, 566, 586, 596, 673, 683, 696, 712, 716, 739, 788,
 791, 796, 814, 829, 843, 849, 856, 876, 887, 899, 905, 920,
 921, 922, 933, 934, 938, 940, 941, 944, 955, 965, 968, 972,
 978, 980, 981, 986, 1000, 1038, 1051, 1066
 <223> n = A,T,C or G

<400> 12
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 aaggacctat gaaatgcaca ttccacgttc cagaaactcg ctgtcatggg tggggctcaa 180
 ggagatggat gcagtatcaa tagggtgtga ttcacgctgc tttggagggg ggcacccagc 240
 acagccttga gagggtctgt caccacatg aaggggctag ggaaggctc ctggaggagg 300
 ggggtggga taagatttga aggaacagga ggagttcagc aggccagacag aagaagggtc 360
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 agtgactgaa agaaattcag tggggccgag ggtgcttagaa gaatggagtc ttcttccaaa 480
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 cttcaacttgc ggacgactgg gggaaanccag aaaaagaact tgcgtanccaa gggaaanggaa 600
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 gaaggaaggc tngggccgga aangtccaaa accggnaaag tggagtgc当地 ancttntcac 720
 ttcccttaag ggcttcttgc tggcttcttgc acggggccgtt ggccccttgc aaggttcttt 780
 tccctggnc ngggncttgc ggccttgggg ggcntttcct tgccaaaang gcttgggggg 840
 ggnccccnc cccccntttt tttcccccc caaaanggcc cggggangtt ccccccttnc 900
 aaccnaaaatt ttaaacaan nnaattttt ccnnaagnan ncangttgg gggcngggcc 960
 ttccnttnaa gnccttgnnc ngggnntttt ttcccttaacn ttccctggccc gccgggtttt 1020
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 gggggcaaaa 1090

<210> 13
 <211> 841
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 661, 716, 724, 729, 751, 762, 785, 790, 805, 834
 <223> n = A,T,C or G

<400> 13

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 cacgctgctg gtggcccccggg tcttccagaa ggctgttagac cagagtatcg agaagaaaaat 120
 tgtgttaagg aatggtactg aggcatgttca ctcctggggag aagccccctc tgcctgtgt 180
 tactcagttc tatttcttca atgtcaccaa tccagaggag atcctcagag gggagacccc 240
 tcgggtggaa gaagtggggc catacaccta cagggaaactc agaaacaaag caaatattca 300
 atttggagat aatggaaacaa caatatctgc tgtagcaac aaggcctatg ttttgaacg 360
 agaccaatct gttggagacc ctaaaattga cttaaattaga acattaaata ttccctgtatt 420
 gactgtcata gagtggtccc aggtgcactt cctcagggag atcatcgagg ccatgttcaa 480
 agcctatcag cagaagctct ttgtgactca cacagttgac gaattgctct ggggctacaa 540
 agatgaaatc ttgtccctta tccatgtttt caggcccgat atctctccct attttggcct 600
 attctatgag aaaaatggga ctaatgtatgg agactatgtt tttctaactg gagaagacag 660
 ntacctaacc ttacaaaaaa ttgttggaaat gatggggaa acgtcccttg actggnggat 720
 acanacaant gccatataa taatggaaaca natggggaaat tttttcccc ccttattacc 780
 caaanatgan ggcctttatg tcttnccatt tgaattttgc aggggaaggg gtantacttt 840
 C 841

<210> 14

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 56, 57, 573, 614, 714, 750, 756, 770, 771, 784, 785, 807,
 819, 851, 859

<223> n = A,T,C or G

<400> 14

gctcaagat taagccatgc atgtctaagt acgcacggcc ggtacagtga aactgnnaat 60
 ggctcattaa atcagttatg gttcctttgg tcgctcgctc ctctctact tggataactg 120
 tggtaattct agagctaata catggcgacg ggcgctgacc cccttcgcgg gggggatgcg 180
 tgcatttatac agatcaaaaac caacccggtc agccctctc cggcccccggc cggggggcgg 240
 gcgccggcgg ctttgggtac tctagataac ctcggccga tcgcacgccc cccgtggcgg 300
 cgacgaccca ttcgaacgctc tgcctatca actttcgatg gtagtcgccc tgcctaccat 360
 ggtgaccacg ggtgacgggg aatcagggtt cgattccgga gagggagcct gagaaacggc 420
 taccacatcc aaggaaggca gcaggcgccg aaattaccca ctcccgaccc ggggaggtag 480
 tgacgaaaaaa taacaataca ggactcttgc gaggccctgt aatttggaaatg aagtccccct 540
 ggagaagcaa atatggtatac acggagccat cancagaaga aaacgccccga gaacctgctt 600
 gcgacttttg caanggaagt gtaagctacc ttgtcccgga acaagccaga ccaaccaagc 660
 atgaactact cccttcttcc ttgaaggagc caaccaaggg gttttattgc ccantgaaaa 720
 cttggccca aaacccaaag aaaaaaaaaacn tttctngggt caaaaaaaaaan nccctttcgg 780
 ttttnaaaaag gggccccccg gaaggttattt tccccttattt taccggggggccagaaaagg 840
 ctttcccccc ntcacaaang ggggggtggaa 870

<210> 15

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 57, 340, 345, 351, 354, 356, 372, 375, 380, 382, 387, 392,
 395, 406, 416, 418, 422, 426, 431, 465, 467, 471, 490, 499,

505, 506, 521, 532, 545, 557, 583, 589

<223> n = A,T,C or G

<400> 15

ggatattgg cccctcactg cagctgccag cacttggtca gtcactctca gccttncac 60
 tttgttcaact gtcctgtgtc agagcaactga cctccacccct tttctgagag ttattacagc 120
 cagaaagtgt gggctgaaga tggttggttt catgttttg tattatgtat cttttgtat 180
 ggtaaagact atatttgtat cttaaaccaga tatatttta cccagatgg ggatattctt 240
 tggtaaaaaat gaaaataaag ttttttaat ggaaaaaaaaaaa aaaaaaaaaaaa 300
 aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaan ggggnggccc ntcnантта 360
 aaggggccgt tnaanccgn tnatcancct cnacngggcc ttttанттgc caccnнтng 420
 tngtngccc ntccccccc cttccttga ccctggaagg ggccncnccc nctgccttgc 480
 ctaaaaaaan gaggaaatng catcnatttgc tctgagtagg ngcattttat tntgggggg 540
 gggggggggc aggacancaa gggggaggat tggaaacaa tancaggcnt tctggggatg 600
 ccggggggct 610

<210> 16

<211> 762

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 645, 703, 718, 758

<223> n = A,T,C or G

<400> 16

ggtagtgct gcgggcgttt tggtaatc ttttgcata aaccatgttt gcgtttgagc 60
 tctccaggat tttacatttt tggtaacct cagtgattcc cattgggtga ggaaatgaga 120
 ccctctctga agctgaggag agcaogttga tctgaacttt aaatcaatca gtgctgtgg 180
 cacaatgaaa ggtgaaactg cacttctgtt gagctctcg ttctgcggaa tttgtactc 240
 attaccgtat tcgcccgtact aagtggttt ctgttagtct taacagtctg ttttcttta 300
 aaagcatgtt gggcttcatt gccatgttct gtgggtgtt ggcaggttac cgatggggaa 360
 gattcttgc acagaatcag caataccata gttttctac atgtgctcag ctgggggtgt 420
 ggacaggtag gggggggaa agaagaggct ctgcgttctg gggctttt cttctccccc 480
 ccctaccggg ttccctccc tgtttccata cctctacggc aagccaaag tgtcttcccg 540
 ggagccccagc gcagcccccc gctcttaccc aggaccccgcc cccgtgtga gccttctgct 600
 gaggcccttgc cgtggagcac actcatttctt ccaacccttgc cgctnccgtt tctcttttc 660
 tccgtcacgt tccaccgaat cactggctga ccgggtccat ggnaagcttc ccatttntct 720
 aaaaggctgc ctgcgcatct tgagcctgcg ctccggntt aa 762

<210> 17

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 19, 20, 22, 50, 55, 495, 496, 521, 522, 529, 531, 535, 552, 567, 568, 573, 576, 592, 602, 606, 611, 617, 621, 623, 635, 636, 671, 687, 699, 704, 721, 722, 732, 761, 771, 775, 786, 812, 817, 823, 853, 873, 874, 882, 891, 892, 905, 908

<223> n = A,T,C or G

<221> misc_feature
 <222> 912, 913, 914, 930, 933, 940, 944, 956, 962, 975, 978, 992,
 993, 997, 1001, 1008, 1019, 1020, 1021, 1029, 1050, 1066,
 1068, 1075, 1076, 1077, 1080, 1095, 1104, 1109, 1117, 1118,
 1120, 1123, 1134, 1143, 1191, 1192
 <223> n = A,T,C or G

<400> 17
 gccccacaca atggcgcgn tncgggagaa attgcaggag gagatgcttn agatnttagga 60
 agccgaaaac accctgcaat ctttcagaca ggtatgttgc aatgcgtctc tggcacgtct 120
 tgaccctgaa cgaaagatgg aatcttgc aagaagagatt gccttttga agaaactccca 180
 cgaagaggaa atccaggagc tgcaggctca gattcagaa cagcatgtcc aaatcgatgt 240
 ggtatgttcc aagcctgacc tcacggctgc cctgcgtgac gtacgtcagc aatatgaaag 300
 tggctgccc aagaacctgc aggaggcaga agaatggtaa aaatccaagt ttgctgaccc 360
 ctctgaggct gccaaccgga acaatgacgc cctgcgcagg gcaaaagcagg agtccactga 420
 gtaccggaga caggtgcagt ccctcacctg tgaagtggat gcccctaaag gaaccaatga 480
 gtccctggaa ccccnatgc gtgaaatggg aaaaaactt nncggttgn a ncttnttact 540
 accccaaaac tntttggcc ccttgcnnng gtnagnattt caaatattga anggggggaa 600
 tnggtntcc nccttnttgg nanaacccaa aaccnncttc aaattttaaa aaaaggggccc 660
 cttggcctt ntggaaattt gcccccncc ccggaaaanc ttnttttta aagggggca 720
 nnaaaaaacac cnaattttt tttggctttt tttccaaac ntttttctt ncctngaaacc 780
 cttggngggg aaaaacaaaa ctgggattcc cnccccnnng ggnngaaacc ccccaaaaa 840
 gggaaactttt ttnttaaaac cgggggaact tannaagggg cngggttttt nncaaaaatt 900
 ttttnttncc gnnnacctt taaaaaaatn gcnccccccn gggngggttt ttttnttncc 960
 cnaaaaaaaa aaaaancntt tttttaaaaa annttnggg ncttttntt ttttgggn 1020
 naaattttnt gaaaaaaaaat ttttttttn cccccccccc cttttnanaa aaaannncn 1080
 ttttttaaa aaaanggggg gttntttng ggggggnnan cantttttt ttncccccc 1140
 ccntttttt ttttttaaa aaaaaaaaaa aaaaaaaaggg gggggggggg nnc 1193

<210> 18
 <211> 689
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21, 54, 639, 649, 663
 <223> n = A,T,C or G

<400> 18
 gggagccata tgggtacctg nggaagctca tttcaggaag caagggaca gccnttgcta 60
 gagtcctgag gcatagcaact aaggaggcaat gtgtggctgg agcacatgt aatagtgggg 120
 gagagctgca ggaagtgtgg ccagattgt aacagcggac atggcgtaaa gggctcaca 180
 gacattacga ggactttggc tcttacactg tggatgttgc gaaatgttattt cattttctt 240
 ttgctgctat cataaattac cacaatttc gtagctaaa gcaatgttgc ttatttctt 300
 ttcagttctg gaggtcagaa gtccaaaaac gtagcttca tggctaaaag caaggtgtct 360
 gcagggccag tccctctgg agacttcagg ggtatgttca gtccttgcac tttccagtt 420
 tgagagccca ctggcactcc ttggcttaga gctgcaccac tccaaactcg gttctgtata 480
 tatctccttc tctgacttgg accctcctgt ctccctgtt taaagacact catgtatgaca 540
 ttgggtccac ctggataacc cagaataatc tctccatctc aagatcctt aatcacatctg 600
 ccatatctt ttactgggtt aaaaaggaca tcatcttang gtcttgcna aataaggatg 660
 tgnaaaaat tggggggaga gcatttttt 689

<210> 19

<211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 54, 56, 109, 114, 115, 116, 123, 126, 128, 133, 142, 143, 153, 155, 156, 163, 164, 173, 174, 176, 177, 179, 183, 186, 187, 193, 199, 200, 206, 207, 211, 213, 256, 261, 275, 281, 283, 290, 298, 351, 370, 378, 379, 381, 421, 429, 446
 <223> n = A,T,C or G

<221> misc_feature
 <222> 452, 459, 471, 493, 499, 500, 507, 517, 536, 538, 539, 540, 551, 555, 562, 564, 565, 566, 571, 577, 582, 587, 602, 603, 604, 622, 624, 628, 658, 669
 <223> n = A,T,C or G

<400> 19
 ggtcaacttc tggatataa gagcggtccc ctggcccaag gcgggtggga tgantntcat 60
 ttggacttag cgggccccggaa agggacaga gaagctttc tggggatnc cgggnntggc 120
 aanttnnaa aancaaaaaa anntccggg cccanntaac cannatttgc gtnnanntnt 180
 ttnttnncgc ctncagggnn ttcccnnggg ntnggggaa aaatccctca ttttgc当地 240
 caaaaatgtt agcttnccga ncaagctttt ttcangttt ncnttttggc ccttcagnct 300
 caaaaatactt tggccccgt tgggttgatg ccggctaccg ttaagaactt ngggcggcgc 360
 aaaatttggc ttgtcccnnc ncagttata ctaggaccc tctggaacta tttatcccc 420
 ncggggganc cttgtttgg gaaaancccc gncaaaaaana ccccccgggg ntggttcctc 480
 cccgcggggg gcntttttnn tggaaanaaa ttggggnncc cccaaataaa aaattntnnn 540
 ccaatggat nggnggggnc cntrnnnacct nccttntcc cnggggnaaa aaagggggggg 600
 gnnnaatgcc tttctaccaa ananaagngg ggggggggaa cccaaaagg gggggggntt 660
 tttttttntt ggggggaa 678

<210> 20
 <211> 695
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 21, 56, 57, 633, 684, 694
 <223> n = A,T,C or G

<400> 20
 gggaaagctgg tcagaatctn naagatgggg aaggatctgg aagggtcac gggctnnatg 60
 actgtttgct ctggtatccc tatagccttg aggaggccct cagaaccaca ggatggctgg 120
 ggtggggctg gagtggtttg ctctccatgt ggagcttctt tggtaggaga acatggcttc 180
 agtgatccca gagatgcctc gtctcccccc ttttcctt cttcccttc ttccctccact 240
 tctgatttct gcttacacag gtgatcaagg aaggccacac ggtgcagaag tggtagttcc 300
 tggaaagtat ataaagatat tctcaggcat gaagcctttt cagatacaca aggtttgcta 360
 tgaggcactc agtctgctcc atatccagag tggacagttt ctcacccat cccacgtgtg 420
 tggccagtca cctacacacgc tcctcatcta gtgttaatgg tcattaccac gtcctcattt 480
 ggagatcagt attccctcat tctacatcta gaatccatgg tcactcacct ggcttcaaatt 540
 ctaatgtcaa gtggttactc acccagcctc acatctaggg cttatagtca ctcacccggg 600
 cccacattca taccaatgac ctcacattgtt ggngcagcag tcattcatcc agctgtcagt 660

ccaggtcacc caccttggct tgcnccattt ccana 695

<210> 21
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> 75, 601, 606, 627, 653, 701, 739, 741
<223> n = A,T,C or G

<400> 21
tttttttttt ttttttatttt aaaactatct tatataatttt cttttattga tacatatttt 60
acatatataat aaggnacaca tgagcatttc ttgcatgcat agaatgtgta atggtaaagt 120
cagcgatattt ggggtatcca tgatctttag tatttaccac ttctatgtgt tggtaacatt 180
tcaagtcctc tcttccaact actttgaaat atgcaatata tttttgctaa ctatagttca 240
ctcttagttagt ctttcttaca tcagaactta ttccctttagt ctaaatggaa atttgtacat 300
attcaccaat ttctcttcat ttcccttctt cagccccgga taacttattt tattccctat 360
ctccatgagg tgaagttttt caccccccac atataagtgaa gaacatgtgg tatttgcctt 420
tctgtgcctg gcttattttca cttaccataa tgacctcaag ttccatccat gttgttagca 480
ataacatttt actctttttt atggccaaat agtattccac tgtgtacata aacattttct 540
ttatccctgt gccactgatg gatgcttagg ttaattccat atcttggta tcatgaatag 600
ngctngata aatatgcaag tgcaagnatc tctttgatata actgattttt ttnctgggg 660
tatacctggg ttgctggaaac atggggggggg tctatttttta nggtttgga gaaaactaca 720
tactggttttt ccccaggang ngggtctaaa ttatacccttc 760

<210> 22
<211> 832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 307, 335, 337, 343, 358, 467, 516, 573, 591, 599, 647, 692,
723, 741, 749, 751, 757, 761, 771, 800, 818
<223> n = A,T,C or G

<400> 22
catgataatg cacactggag atggacctca taaatgtaaat atatgtggaa aaagctttga 60
ttctcccaagt tcatttcgaa gacatgaaag aattcacact gggagagac cctataagt 120
taaactatgt gggaaaggct tcaggtcttc cagttacatt caactacatg aaaggactca 180
caactggagag aaaccctatg gttgtcagca atgtggaaa gcattatctg atctctcaag 240
ctttcgaaga cacatgataa cacatactgg aatggacact cataaatgtt agatatgtgg 300
gaaaggnttt gattatccca gttcagcgc aacangngag aantctact ctggaganac 360
cctatgaatg caaggaatgt ggttaaaggct tcagtcattt aagttactta cgaataccccc 420
gaaagagttt atactggaga gaaaccctgtt taaatgtaaa ggaatnggg aaaccatttc 480
attgtcccc ggaggccctt tcataaacct tgaaangac ccaccagttat tgggagaaaa 540
cccctttaaa gtgtaaaaga aatggggggg ggnnaagcaat ttttcatttgg naatcaagtt 600
tccctttca taaaaccat ggaaaatggg accttcacct tagaagnaaa aaaccctt 660
attgaagtgg gttggaaacc attgtgtggaa gnaaaaaggcc cttaaagta ctttttcaa 720
gcntttttt tacccaaattt nccctttang naagacnttc nccaccttgg naaaaaaaaaa 780
ggttggttt ttggaaattn tttaaaaaaa atgggtancc tttaaaaaac cc 832

<210> 23
 <211> 728
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 55, 559, 598, 651, 670, 707, 722
 <223> n = A,T,C or G

<400> 23
 ggtcagagcc actgaaaacn ttgcattctt tagcccttcg tgggcttctg atggnttcac 60
 acagatgaag tgcttcattt ttatccctct ggcattccctg ctgcaccata agccctgttag 120
 cacttgataa gatagatggg aatactgagc tcagagagcc cgcaacttagca ggagagacag 180
 ggatttgaca aatgagaatg catagaaaaa tgctggact atgaggagct cgaggtgtatg 240
 gtgaggccta tgaaggtctg cagctgacac ctgggtgtgga gtggaaacttg gccagggtaa 300
 agaaaggggg cagggaaagat gtgcacatgca gaggggagca ctgcctgtaa gggccaagat 360
 ggaagggtac acagtaaatg caaaaactcag aaaaatcggt tatgtttgtg atggaaggga 420
 gcagaggtt gactggcac tgccactggg gacttttagtc ctaaaagcaaa gcaaaatgtt 480
 cttctaaaac agtagggcgc gatccctgag ttccagaaac tgggtggcacc actggatttg 540
 accttagag atttaccang ctgcacatgtg ggtggatggt ggacagaaga tgggggcnag 600
 gctggacaca ggctaccaca gctattgcca tgcccttctt atgggggtgg ngcttggata 660
 ggagtgtatgn gatgtctgac tggggaaaga ctaccctgtg ggagtngat ttggaaataa 720
 antgcaga 728

<210> 24
 <211> 203
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 21, 56, 195, 197
 <223> n = A,T,C or G

<400> 24
 ggtctacaca gaagtggcn ntgacatgg tctggttaa ctaatatttgc gctgtntgct 60
 actaacagat tataataat tgtcatcagt gaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 120
 aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa 180
 aaaaaaaaaaaa agggnanccc cct 203

<210> 25
 <211> 990
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 55, 531, 541, 585, 609, 625, 637, 652, 653, 691, 703, 727,
 747, 748, 753, 754, 757, 760, 784, 791, 797, 806, 823, 836,
 855, 870, 874, 902, 923, 927, 964, 967
 <223> n = A,T,C or G

<400> 25

gacacaatgt tggcactctt ggttctggtg actgtggccc tggcatctgc tcatnatggt 60
 ggtgagcaact ttgaaggcga gaaggtgttc cgtgttaacg ttgaagatga aaatcacatt 120
 aacataatcc gcgaggttgc cagcacgacc cagattgact tctggaagcc agattctgtc 180
 acacaaaatca aacctcacag tacagttgac ttccgtgtt aagcagaaga tactgtact 240
 gtggagaatg ttctaaagca gaatgaacta caatacaagg tactgataag caacctgaga 300
 aatgtggtgg aggctcagtt tgatagccgg gttcgtgcaa caggacacag ttatgagaag 360
 tacaacaagt gggaaacgat agaggcttgg actcaacaag tcgcccactga gaatccagcc 420
 ctcatctctc gcagtgttat cggaaccaca tttgagggac gcgttattt cctcctgaag 480
 gttggcaaaag ctggacaaa taaggctgcc attttcatgg actgtgggtt ncatgccaga 540
 nagtgggatt tcttcttgca ttcttgccag tggttttgtt agaanaggct tgttcgtaacc 600
 ctatggacng tgagaatccc aagtnagacag aaccttnnc gaccaaggtt annactttt 660
 attgtccctg ccctggggct tcaaataatt naatgggta cantttacc acccttgga 720
 acccaanaaa gcccatttt ttgggannaa aannaantn ggtttcccccc ccattacttg 780
 ggantcttaa ncttgcnatt tgggcnccaa accccccaac canaaaaattt tttaangcct 840
 gggttgggggg ggggnaaaaa tgggaccctn tttnaaaccct cctggggatg gaaaaattta 900
 cttgggggac cttgccccaa aanttngaa aaggggaaacc aagggcctgg gttttttttt 960
 tccncanaaa aattttttt ttttaagggg 990

<210> 26
 <211> 769
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 572, 624, 625, 641, 648, 701, 705, 714, 764, 768
 <223> n = A,T,C or G

<400> 26
 ggtgccttga tgccttgct tcttagcttc ccaaattttcc tccggaaactn actgatctcc 60
 ttctaaagctt tgccttggcc tgaactgtttt ctggggaaaa acaaaaaaac aaaaaacaac 120
 ttgtggagct gcttgttaat gagtttcata accaggcagc aagagccagc tccaaaggctc 180
 aagcccactg tctactccctt gcccgtggg agccctctggc cagtcgtctg cttcccccaccc 240
 ttcctccctg cctctttca ccacaggca gctgccgtgg aggacagaca atggagcagc 300
 tgccttgccc tggcaccctg cataccagct gtccactt atctgcacac acactttctg 360
 ggtatattaag aggtggagct ttgtgcacag aattggaaag tgggggagga ggagggggaa 420
 gacttctgac cctctcttag aagaaaaggg gatagggtgg ggggtggggg cttccgagag 480
 ccctttgtc cttgagccccc tgcgttaaga agaatgctca tcccccaggc tgagtcaaag 540
 tcccaggcta ctaggcaggg gggcaagtcc tncacaacct gggagaata actcagctg 600
 ggattgctga ctgaagccgg cganntgtgt cctggccaa nggcggnnag ccctgtggg 660
 aggacttggc gtggggcttg acctggttt tcttttggta naacnactgc ctgnctggat 720
 gggagaaca acatggattt ttggacaaac ccaggaaatg caantaant 769

<210> 27
 <211> 1182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482,
 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494,
 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506,
 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517

<223> n = A,T,C or G

<221> misc_feature

<222> 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564

<223> n = A,T,C or G

<221> misc_feature

<222> 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 603, 605, 607, 609, 610, 637, 638, 639, 641, 645, 650, 652, 653, 654, 656, 669, 670, 671, 672, 674, 679

<223> n = A,T,C or G

<221> misc_feature

<222> 684, 691, 692, 699, 714, 720, 731, 733, 738, 741, 767, 774, 782, 783, 784, 796, 804, 809, 810, 811, 812, 813, 814, 816, 820, 821, 822, 832, 840, 841, 846, 847, 848, 864, 886, 888, 889, 890, 899, 900, 901, 912, 913, 917, 932, 933, 934

<223> n = A,T,C or G

<221> misc_feature

<222> 935, 936, 937, 939, 941, 942, 946, 948, 950, 956, 967, 984, 999, 1015, 1016, 1022, 1033, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1055, 1056, 1057, 1060, 1061, 1062, 1063, 1066, 1068, 1088, 1089, 1090, 1091

<223> n = A,T,C or G

<221> misc_feature

<222> 1094, 1096, 1100, 1109, 1110, 1115, 1117, 1121, 1122, 1123, 1125, 1126, 1127, 1128, 1174, 1177

<223> n = A,T,C or G

<400> 27

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 tgccatggcc ctgtggatgc gcctcctgcc cctgctggcg ctgctggccc tctggggacc 120
 tgaccaggcc gcagcccttg tgaacccaaca cctgtgcggc tcacacctgg tggaaagctct 180
 ctacccatgt tgccgggaaac gaggcttctt ctacacaccc aagacccgccc gggaggcaga 240
 ggacctgcag gtggggcagg tggagctgg cggggccct ggtcaggca gcctgcagcc 300
 cttggccctg gaggggtccc tgcagaagcg tggcattgtg gaacaatgt gtaccagcat 360
 ctgctccctc taccagctgg agaactactg caactagacg cagccgcag gcagcccccc 420
 accgcgcgt cctgcacccga gagagatgga ataaagccct tgaaccagcc nnnnnnnnnnn 480
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 540
 nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn gggggggggc 600
 ccntntnann tttaaaaggc ccctttaaa acccccnna naaancccc cnnnnggggg 660
 gcctttttnn nngncccncc cccnctttt nngtttng cccccccccc cccnggggn 720
 tttttttttt nancccnng naaaaggggg gggccccc ccccccnggg gggntttttt 780
 tnnnaaaaaa aaaaangggg gggnaaaann nnnnccccn nntttttttt tnaaaaaaan 840
 ngggnnnntt tttttttttt tttnnggggg ggggggggg ggggnccnnn aaaaaaaann 900
 nggggggggg annttngaa aaaaaaaaaa annnnnnntnt nngggngngn gggggntttt 960
 ttttttnggg gggaaaaaaaaa cccnnggggg ttggggggnc cccccccttgg ggggnnaaaa 1020
 angggggggg gnggtttnnn nnnnnnnntt tttnnncnn nnnccntntt tttttttttt 1080

tttttttnnn nggntncnn aaaaaaaann gggtnntgg nnnannnncc cccccccccc 1140
 caaaaaatgg gggggggggg gggccccc aaanttnntt tt 1182

<210> 28
 <211> 792
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 605, 638, 640, 706, 713, 724, 753, 759
 <223> n = A,T,C or G

<400> 28
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 attttaaaag gaatcagagg cagcagggg tcgttcagt gttgtcaaaa cttgagtg 120
 ggtcagcatc acctggaggg cttatcagaa tgcagcctgc tgggctcacc cccagagt 180
 tggatttttt ttgttataa ggttaagccc agaatttca ttcttgacaa gatcccagg 240
 gaggtctact cgtgctgctg gctttggat cacacttaac taccggtata gtggggaaag 300
 acagggtttg gggtcacaga gggcagagct ggaattccag ctccctccag ctgtcagact 360
 ttgggccagg cacttagttc ctctgagcct catctatgaa acgaaaacat ctgggtattt 420
 ccccgcaag gggatgatga ggattgtatg agctcatgtg tgtagaagc tgctcgac 480
 ctttgagtac acagcaagca ctcagtaagt gtttaggaccc tttcttgcca aaaaatgaagg 540
 caccagaaaa cctggtgtaa aaaaattacc acagataaac ctgcaggaac aaaaatgccc 600
 gccangtgcc tgtaatctta gcactttggg aagctgangn gggtgatca cctgaggcag 660
 gagttcgaga ccagcctggc cacgtggta aaccctgtct ctctanagaa tanccaggtg 720
 tagngatgcc cctataatcc gtttcttagga agntgagcng aaatacttga cctgaggtga 780
 gtgactgatt cc 792

<210> 29
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 226, 236, 243, 256, 257, 259, 268, 285, 300, 303, 324, 334,
 415, 449, 452, 462, 469, 496, 509, 510, 512, 517, 529, 548,
 565, 567, 573, 579, 597, 599, 619, 626, 628, 630, 662, 663
 <223> n = A,T,C or G

<400> 29
 cgccttttt tttttttttt tttttccct taagttacat ttaataacag tgacaatgac 60
 caacatttag cagttgcctc gtgtccggc ctcagcactg gcttattaaac atactttac 120
 cactcagaga gggacactga ggagaagaga aatggtaaac atcataagaa taaaatgaga 180
 ggttaagaata aaatgagagt cagaagcaaa tgggaggaac tctgantcag gaatnggta 240
 aanatcgggg gaaacnnat gacctganat aatgggggt tcattttgg ggaactgtan 300
 ganattcttgc ggcctggag acancaggc aaanaggaag gaagaacctg gatgccttag 360
 cgaaccaagc tcccgcatc tatccccaca tccccctggc cgtgtttatt agggncact 420
 ggccaaatga caagctccaa agatcacngn angggggggg tnccccggnc ttttggcg 480
 cccaaaccc tttttntgcc cttcttctnn gnaaaanccc ccaggaaant ttgccttgc 540
 tccccagaa aacttgatat gatcントntgc ganccttgn aatgggggag tctcctntnt 600
 tgtcttcctg gggcactcna aggagngnan aacgtcaaac cttggggaca tagggtttgc 660
 annaatggtg atgagggtc atccctggag ggg 693

<210> 30
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> 20, 55, 240, 248, 345, 366, 442, 447, 449, 484, 508, 514, 522, 527, 542, 545, 559, 569, 571, 590, 640, 650, 667, 689, 690, 699, 703, 704, 708, 713, 714, 715, 732, 742, 745, 761, 791, 792, 793, 802, 809, 820, 831, 840, 841, 861, 872
 <223> n = A,T,C or G

 <221> misc_feature
 <222> 873, 939, 975, 993, 1004, 1005, 1008, 1044, 1066
 <223> n = A,T,C or G

 <400> 30
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 ctaggcattg aatgatgagt agaatgttgg taactatagt caggggaagg gtattccagg 120
 atgggggcct cttcaacatt acatcgctgt ctccagcccc accaacacca cttatgttgc 180
 acagatgcc ttggcaatt tgactggcac agtggtaac ctcacccgaa aacagtgcnn 240
 agaatccnaa gtaaaatccc aagtgaaaac aaaggatct ggtattgaag tacctcatgg 300
 ggtcccaggg gcccctttt catttcttaa atgaaaacgg acccngactt ccccccgggtg 360
 gtggtnccgt ttcttactgg caccgattaa gcccaggggc ccttgggtcc ttccctgccc 420
 ttttggaaac ttgaaattca antgggnanc cttcttacact ggaaataact tcttacccat 480
 gggnacctgg aaaaaacccc ccttggnaa aaanaaaatt tncccnnggc ccccccggga 540
 anatntttc tttcaatting gccccggnc naaaaaaaaaa accctttggn aaattttgga 600
 atccaaccccc ccttggaaacc cagttggggg gcctttttn gggcaatttn ccctccaatt 660
 tttttnttt ccccccttta atttgggnna aacccttna aannngggnga ttnnnnaattg 720
 gccccccaaa anccttgaa anggncccc tttttcaaa ntgggggtcc ccccccggg 780
 gaaacccccc nnnaaacct tngggccnt aaccgggn ggggggggna ncccccccn 840
 ntttttttt ttttgccttta nttttaaaa annttcacct tttcttaaaa aaaaattttt 900
 tttccccctt gggggcaccc acccccctt tttttttna ctttggaaa ccccccctt 960
 gggggccctt ttttntaaaa aatggggat ttnccctt aaannnagngg ggggaccttt 1020
 tcccccaaaa aaaaaacccgg gggnaaaaaa aaaaaaaaaa aggggntccc cttttttcc 1080

<210> 31
 <211> 1027
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21, 53, 54, 88, 91, 94, 369, 467, 539, 579, 582, 598, 606, 623, 634, 644, 651, 668, 674, 684, 703, 718, 731, 744, 748, 756, 758, 788, 798, 803, 817, 818, 830, 850, 851, 853, 867, 883, 888, 889, 894, 903, 905, 906, 907, 909, 919, 922
 <223> n = A,T,C or G

<221> misc_feature
 <222> 927, 930, 931, 935, 936, 941, 942, 953, 956, 961, 962, 964,

966, 991, 1007

<223> n = A,T,C or G

<400> 31

ggttgaacca tccttgatt nctggatga atcccatctg atcatggta aanntttata 60
 ctcacaatat tggggccat caccacancc natntccaaa acttttcat cacaccaaac 120
 agaaactctg tacctaccaa gcaataactc ctcatactcc ctgacccag ctcctagat 180
 cctctattct gcttctgtc tccatgaatt tgcctttct aggtatctt cataaataga 240
 atcataaaat atttgcctt ttgtgtctgg tttctttac ttagaaatgt tttcaggctt 300
 catctatgtt gtcacatata tcagaatttc attcctttt aaggctggta taatatccct 360
 aacagtggng tgaggatctc agttctccat ttcctaccaa cagtggttt tcctttaaa 420
 aaattatcat agccatccca ggtatctgtc aatttggcac ataaggngtt actgtggaaa 480
 ggagcacggg actacgcaga agtccaagcc taatcactaa cagactaaca gggggagng 540
 gacaatccgg gactctaagg gcctcagggtt ctttctcng gnaaaggggg agctaaanaa 600
 tggccngcct ggccaaacct ganataaggg gggngggaa aaanaaaggg nggccaaata 660
 aaaaaaaanct aagnaccagg accnctaga aaaggggggg gangcttatt tatttttncc 720
 ccagaaaagg ngaaaacccctt aaangggngg ggcagnanaa ttggggccctt ggttaaggca 780
 ccccttnaa tatccccncc ccntggaaac caggggnngg ggcctcaan aggggcctc 840
 caaaaacatn ngngaaaaga aaggaangaa cctttaacaa ccngggtnnt gggnaaaggg 900
 aantnnnang ggaaaggngn gncctntcn ngggnnggtt nnaaggggga ccnganaaaa 960
 nngngngggg aaaaatcccg ggccccgggg naaaacaaag gggAACnccc ccccccccaa 1020
 aaaaaaag 1027

<210> 32

<211> 1193

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 55, 56, 603, 635, 658, 681, 699, 703, 725, 731, 739, 752,
 759, 775, 810, 817, 827, 831, 834, 840, 883, 891, 894, 902,
 906, 915, 924, 937, 945, 946, 954, 959, 967, 968, 970, 971,
 974, 975, 976, 977, 985, 986, 987, 989, 997, 1005, 1013

<223> n = A,T,C or G

<221> misc_feature

<222> 1014, 1015, 1019, 1050, 1052, 1053, 1054, 1055, 1061, 1062,
 1063, 1072, 1081, 1088, 1089, 1094, 1098, 1099, 1102, 1103,
 1124, 1125, 1139, 1158, 1176

<223> n = A,T,C or G

<400> 32

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 atcttgccat gatgagccag gggacacaga agagaagccc actatctcat ttaatctta 120
 caactctttt gcaagggttcc ctgttgtga aaatacatga gataaatcat gaaggccact 180
 atcatectcc ttctgtctgc acaagttcc tgggctggac cgtttcaaca gagaaggctt 240
 tttgacttta tgctagaaga tgaggcttcc gggataggcc cagaagttcc tgatgaccgc 300
 gacttcgagc cctccctagg cccagtgtgc ccctccgtt gtcaatgcca tcttcgagtg 360
 gtccagtgtt ctgatgtggg tctggacaaa gtgcacaaagg atcttcccccc tgacacaact 420
 ctgctagacc tgcaaaaaca caaaataacc gaaatcaaag atggagactt taagaacctg 480
 aagaaccttc acgcattgtat tcttgtcaac aataaaatgtt gcaaaatgtt tcctggagca 540
 tttacacccctt tggtaagtt ggaacgactt tatctgtcca agaatcagct gaagggattt 600
 ccngaaaaaa tgccaaaaac tcttcaagga gctnggtgc cccatgagaa tgagatcncc 660

caaagtgccg aaaaaggtaac ntttcaatgg gacttgaanc ccnaagaatt ggtcattaaa 720
aactnggggc ncccaattnc cccttaaaa anacttcang gaaattggaa aaatngggg 780
cttttcccc gggggaaatg gaaaaaaaaan ttttttnctt aaaattnccc naanttggn 840
tggatacccc caatatttc ccccccgctt ttttccttcc aanggggggg ntncccccc 900
cntttncctt tttncgggg gaanattaac cccttnttt ttgggnnggg gggnccccna 960
aaaattnncn nccnnnnnaaa atttnnntnt tgcccnccct ttttnccccc ccnnnaaang 1020
gggggccggg gaaaaaaaaa atttgggn cnnnnaaaaa nnnggggggg antggggaa 1080
nttttttnna aanaaaanna anntttttt ttttttttt ttnnaaaaaa aaaaaagngt 1140
ttttttttt ttcccccncc cccccccccc cccctnttt ttgggggggg ggg 1193